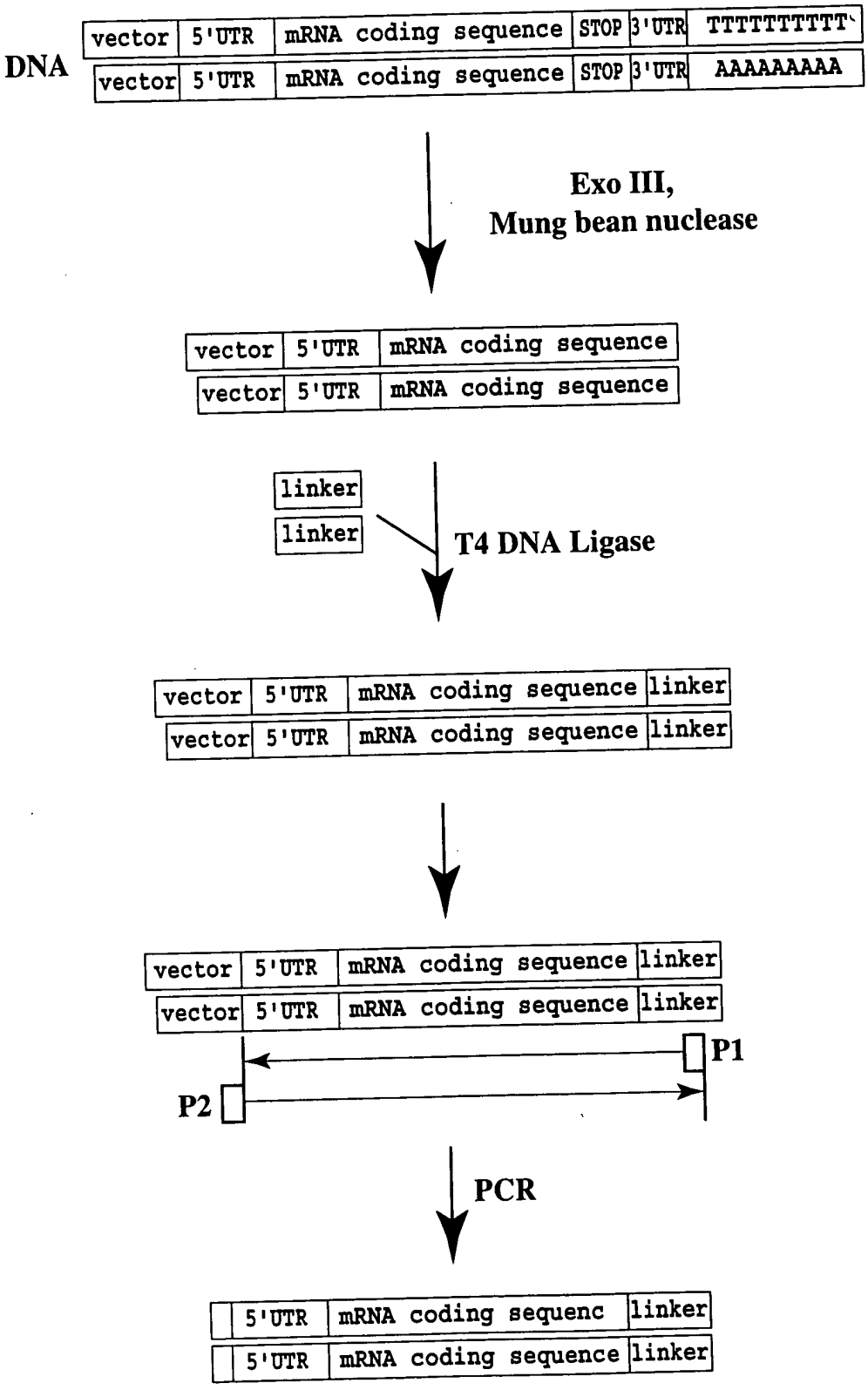

DNA
vector 5'UTR mRNA coding sequence STOP 3'UTR TTTTTTTTTT
vector 5'UTR mRNA coding sequence STOP 3'UTR AAAAAAAAA
Exo III,
Mung bean nuclease
vector 5'UTR mRNA coding sequence
vector 5'UTR mRNA coding sequence
linker
linker
T4 DNA Ligase
vector 5'UTR mRNA coding sequence linker
vector 5'UTR mRNA coding sequence linker
vector 5'UTR mRNA coding sequence linker
vector 5'UTR mRNA coding sequence linker
P1
P2
PCR
5'UTR mRNA coding sequenc linker
5'UTR mRNA coding sequence linker

Fig. 1

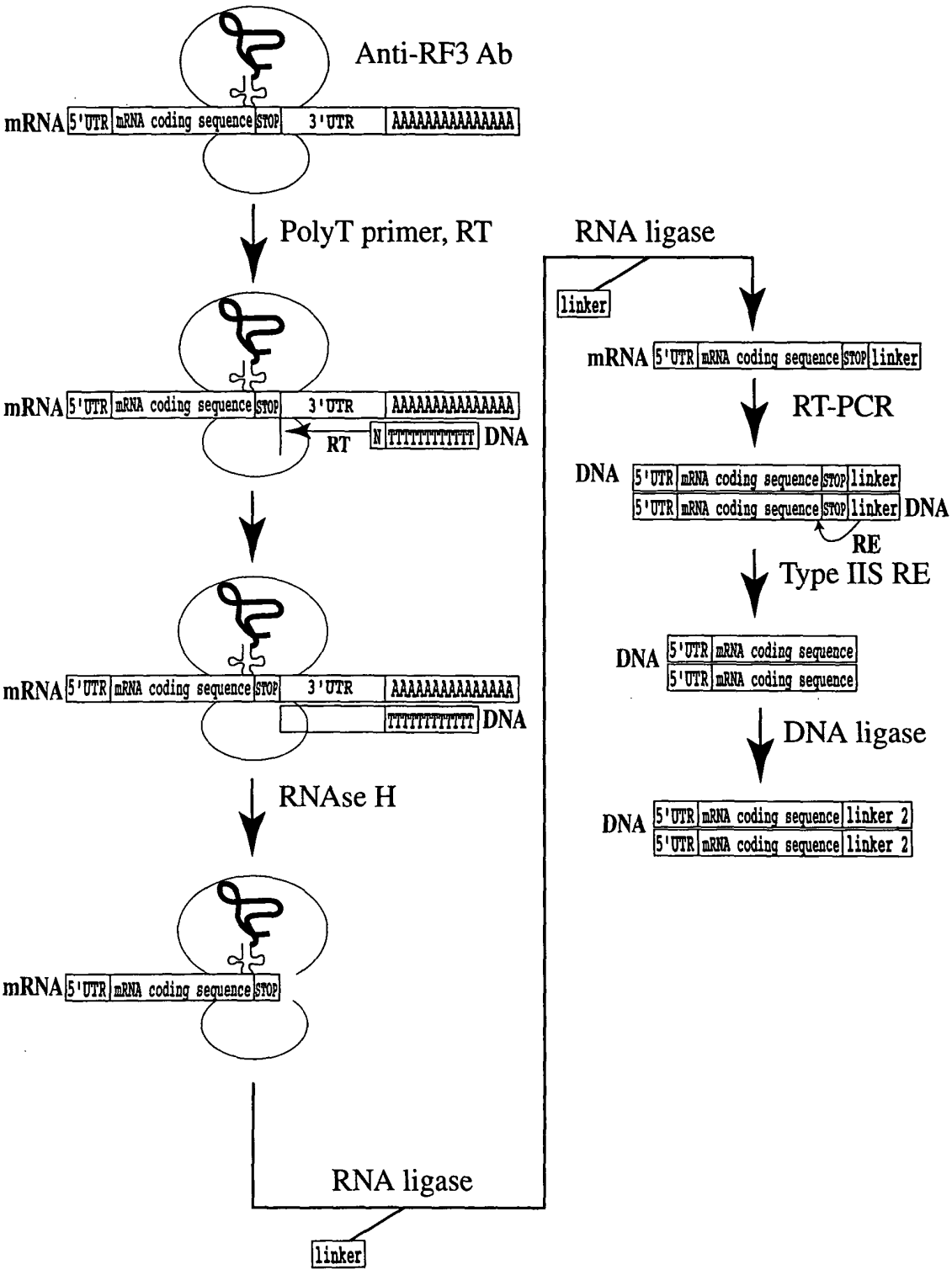
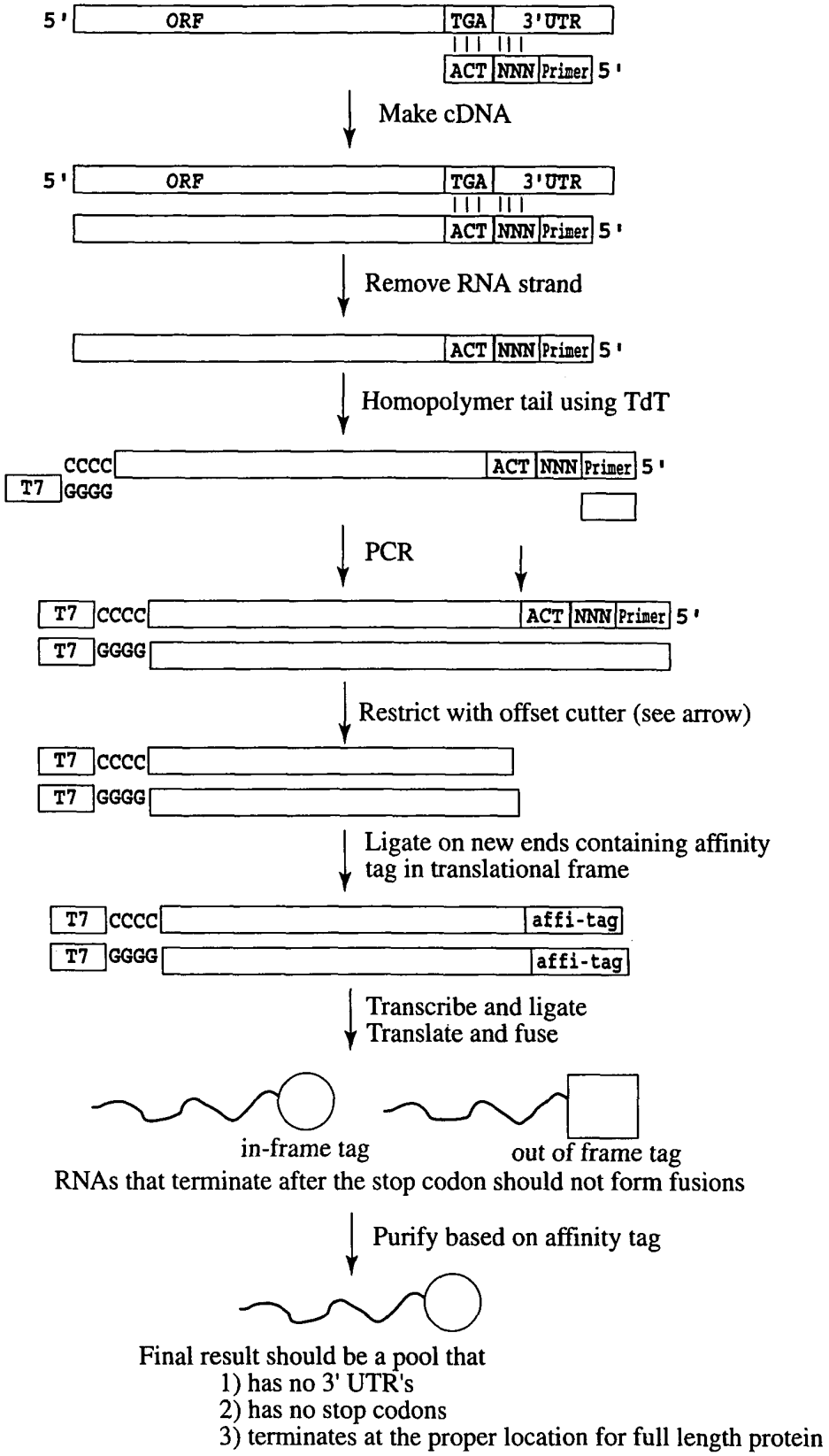

Anti-RF3 Ab
mRNA
5'UTR
mRNA coding sequence
STOP
3'UTR
AAAAAAAAAAAAAAA
PolyT primer, RT
RT
N
TTTTTTTTTTT
DNA
RNAse H
RNA ligase
linker
RT-PCR
Type IIS RE
RE
DNA ligase
DNA
5'UTR
mRNA coding sequence
STOP
linker
linker 2

Fig. 2

3/14



Final result should be a pool that
1) has no 3' UTR's
2) has no stop codons
3) terminates at the proper location for full length protein

Fig. 3

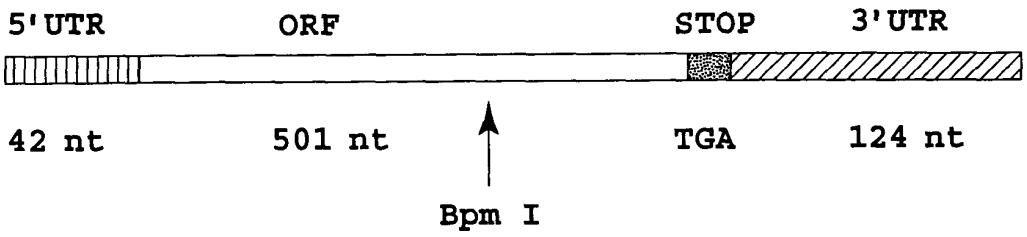


Fig. 4

Fig. 5

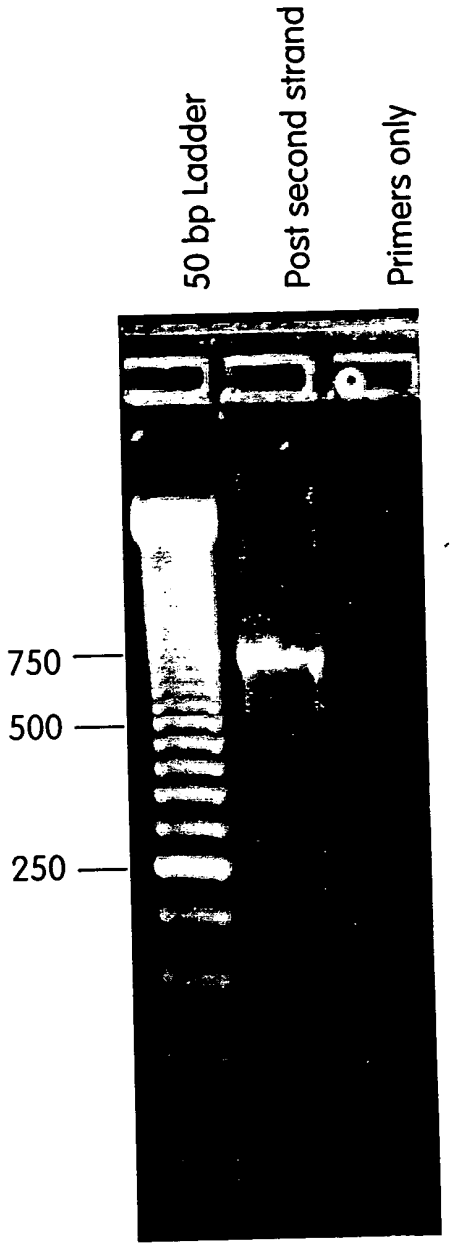


Fig. 6

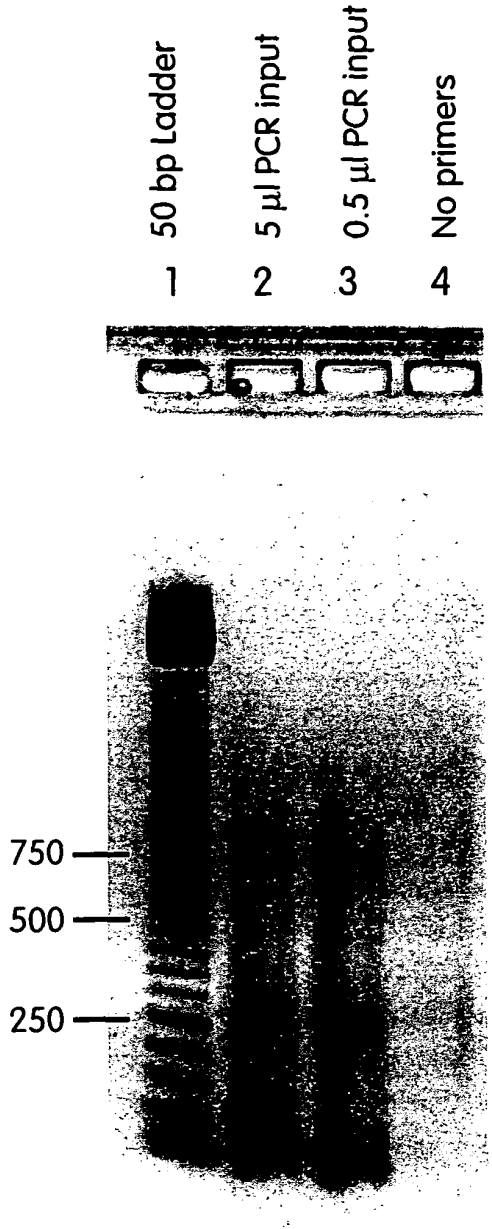

50 bp Ladder
5 µl PCR input
0.5 µl PCR input
No primers
1
2
3
4
750
500
250

Fig. 7

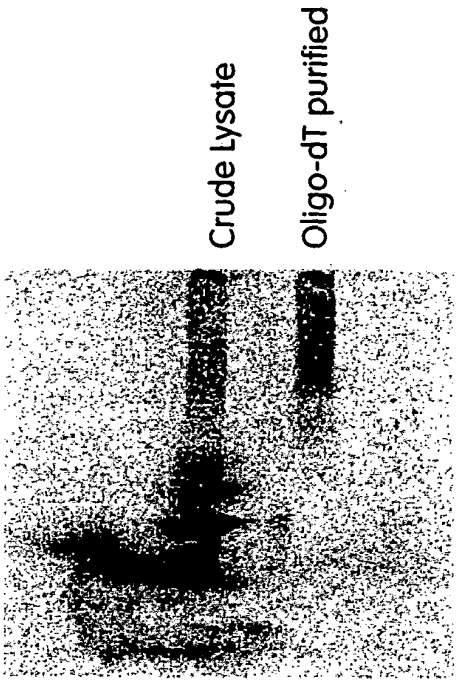


Fig. 8

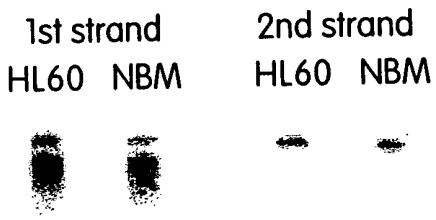


Fig. 9

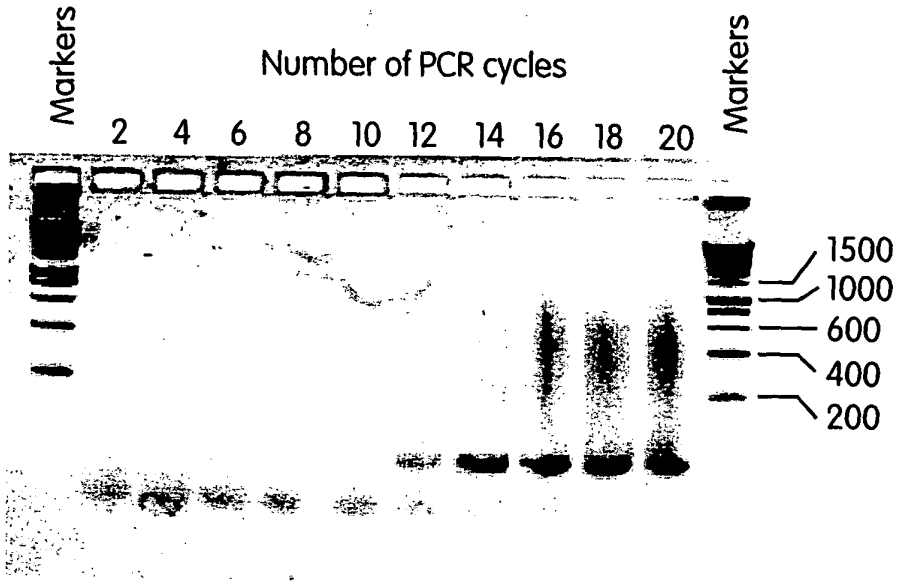

Markers
Number of PCR cycles
2
4
6
8
10
12
14
16
18
20
Markers
1500
1000
600
400
200

Fig. 10

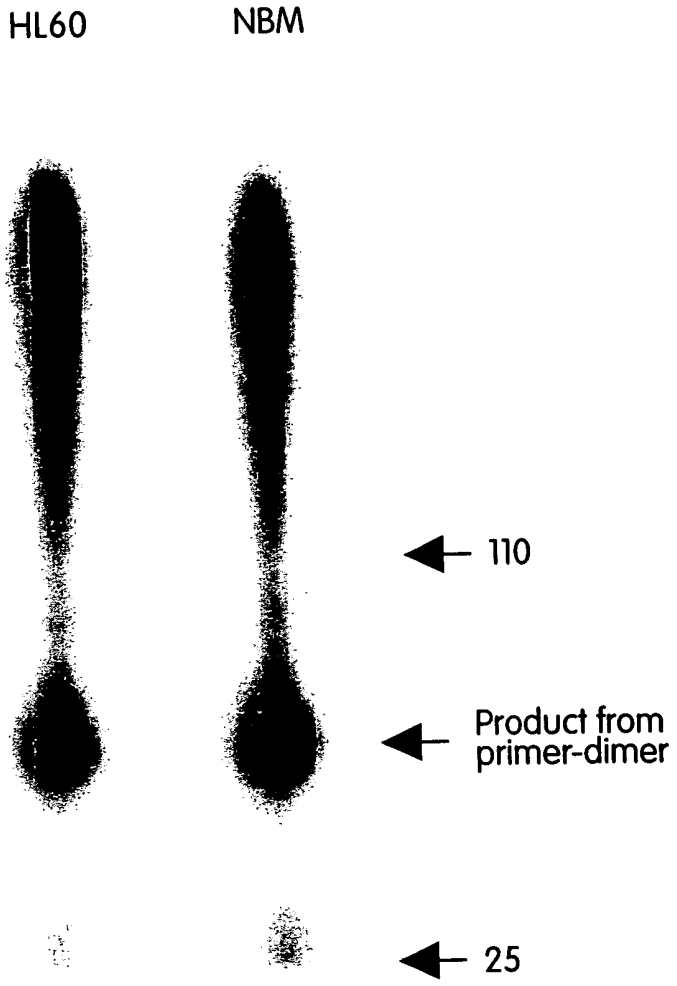


Fig. 11

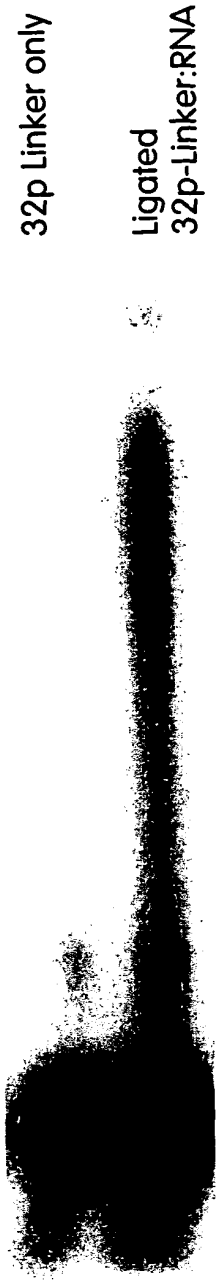


Fig. 12

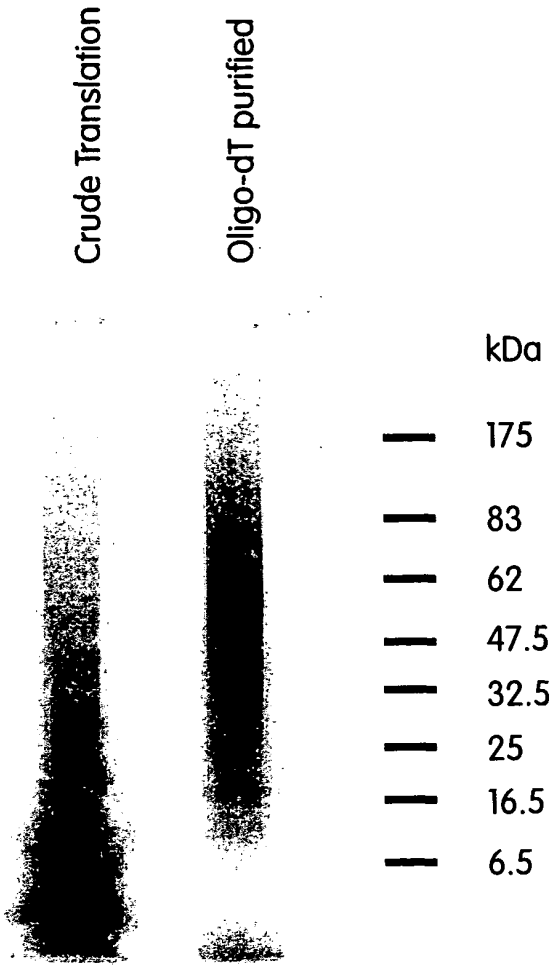

Crude Translation
Oligo-dT purified
kDa
175
83
62
47.5
32.5
25
16.5
6.5

Fig. 13

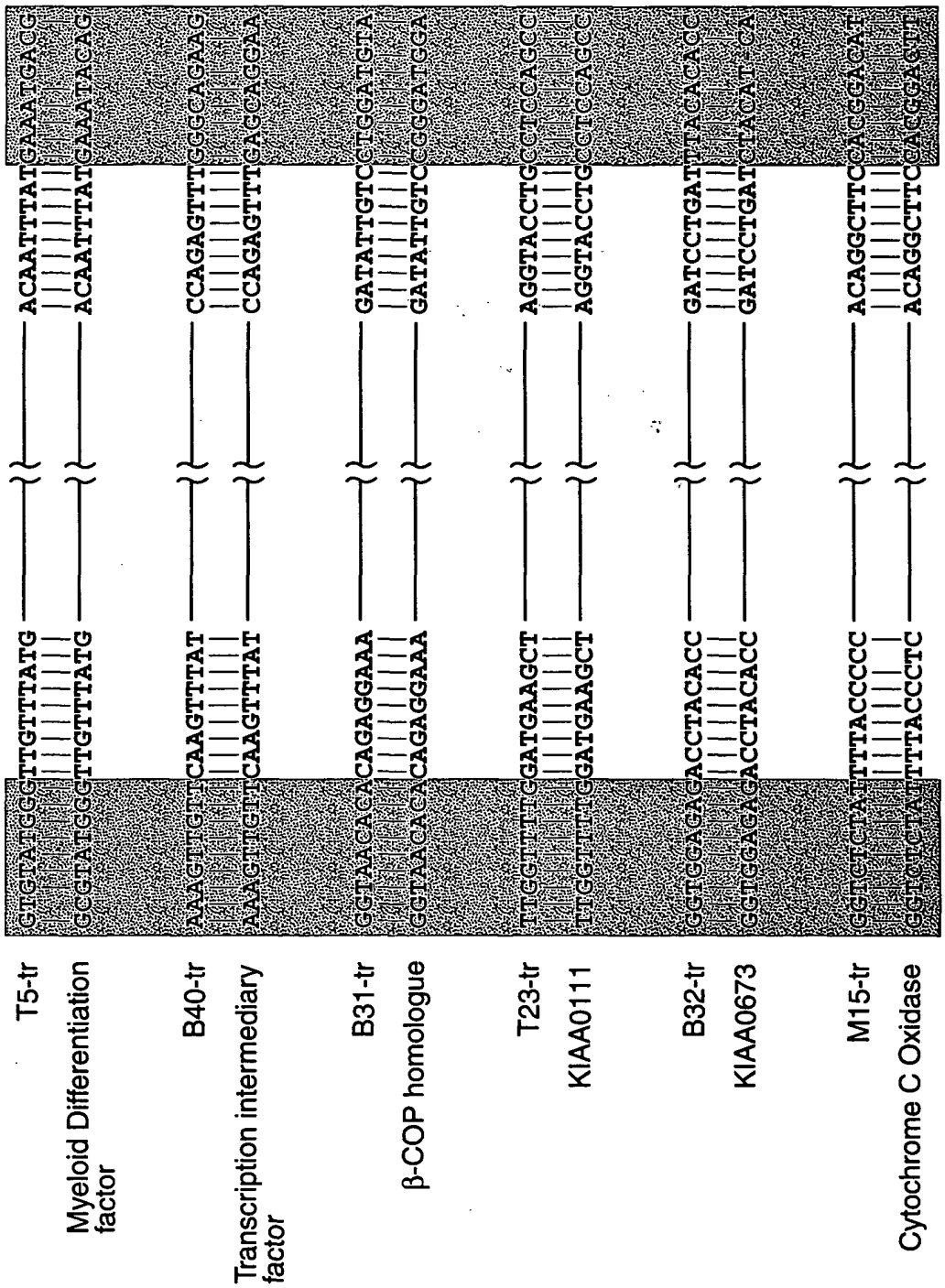

T5-tr
Myeloid Differentiation factor
B40-tr
Transcription intermediary factor
B31-tr
β-COP homologue
T23-tr
KIAA0111
B32-tr
KIAA0673
M15-tr
Cytochrome C Oxidase
N(9)
N(9)

Fig. 14